

**PRODUCTION OF METAL CASTINGS**

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**Abstract**

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Sound castings (1), free from aluminium pick-up, are produced in moulds (2) in which are located at places where it is desirable to promote directional solidification lining pads (9) made from a composition which comprises particulate refractory material, finely divided aluminium, an oxidising agent for the aluminium and a binder, and which is substantially free of fluoride salts, which contains a fibrous refractory material and which has a density of 0.3 to 1.1 g/cms. The composition may be incorporated as a preformed pad, or as a flexible mat or mouldable mixture which can be dried or hardened chemically.

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<p>(21) International Application Number: <b>PCT/GB80/00067</b></p> <p>(22) International Filing Date: <b>18 April 1980 (18.04.80)</b></p> <p>(31) Priority Application Number: <b>7920757</b></p> <p>(32) Priority Date: <b>14 June 1979 (14.06.79)</b></p> <p>(33) Priority Country: <b>GB</b></p> <p>(71) Applicant (for all designated States except US): <b>FOSECO INTERNATIONAL LIMITED [GB/GB]; 285 Long Acre, Nechells, Birmingham B7 5JR (GB).</b></p> <p>(72) Inventor; and (75) Inventor/Applicant (for US only): <b>GOUGH, Michael, John [GB/GB]; 3 Uplands Close, Penkridge, Staffordshire (GB).</b></p>	<p>(74) Agent: <b>SHAW, Laurence; Group Patents Department, Foseco Minsep International Limited, 285 Long Acre, Nechells, Birmingham B7 5JR (GB).</b></p> <p>(81) Designated States: <b>AU, BR, DE, FR (European patent), GB, JP, US.</b></p> <p><b>Published</b> <i>With international search report</i></p>	

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## (57) Abstract

Sound castings (1), free from aluminium pick-up, are produced in moulds (2) in which are located at places where it is desirable to promote directional solidification lining pads (9) made from a composition which comprises particulate refractory material, finely divided aluminium, an oxidising agent for the aluminium and a binder, and which is substantially free of fluoride salts, which contains a fibrous refractory material and which has a density of 0.3 to 1.1 g/cm<sup>3</sup>. The composition may be incorporated as a preformed pad, or as a flexible mat or mouldable mixture which can be dried or hardened chemically.

